

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P451825

Luminaire Tested: **GALN-SA2D-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12735 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

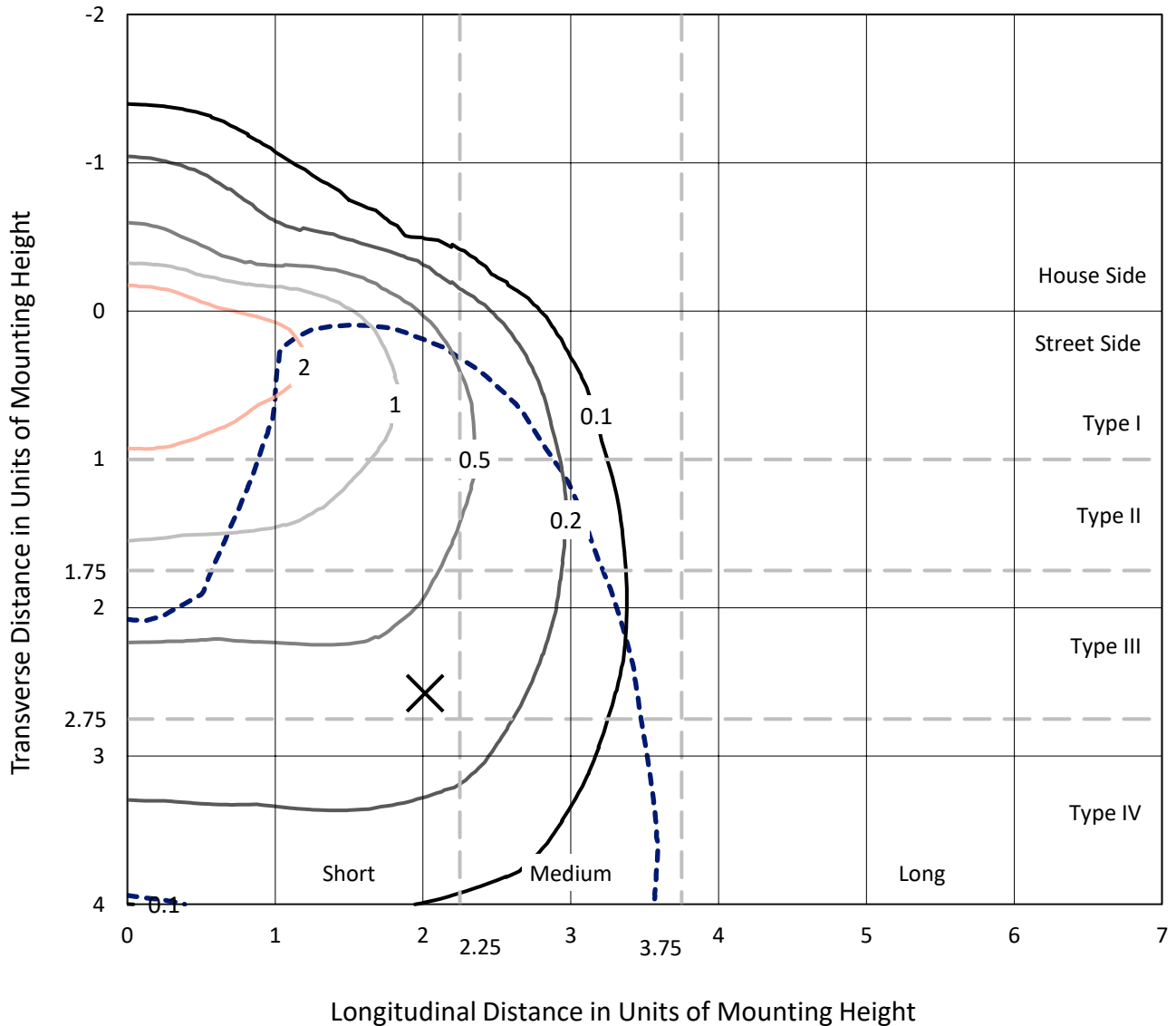




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Iso-Footcandle Lines of Horizontal Illumination

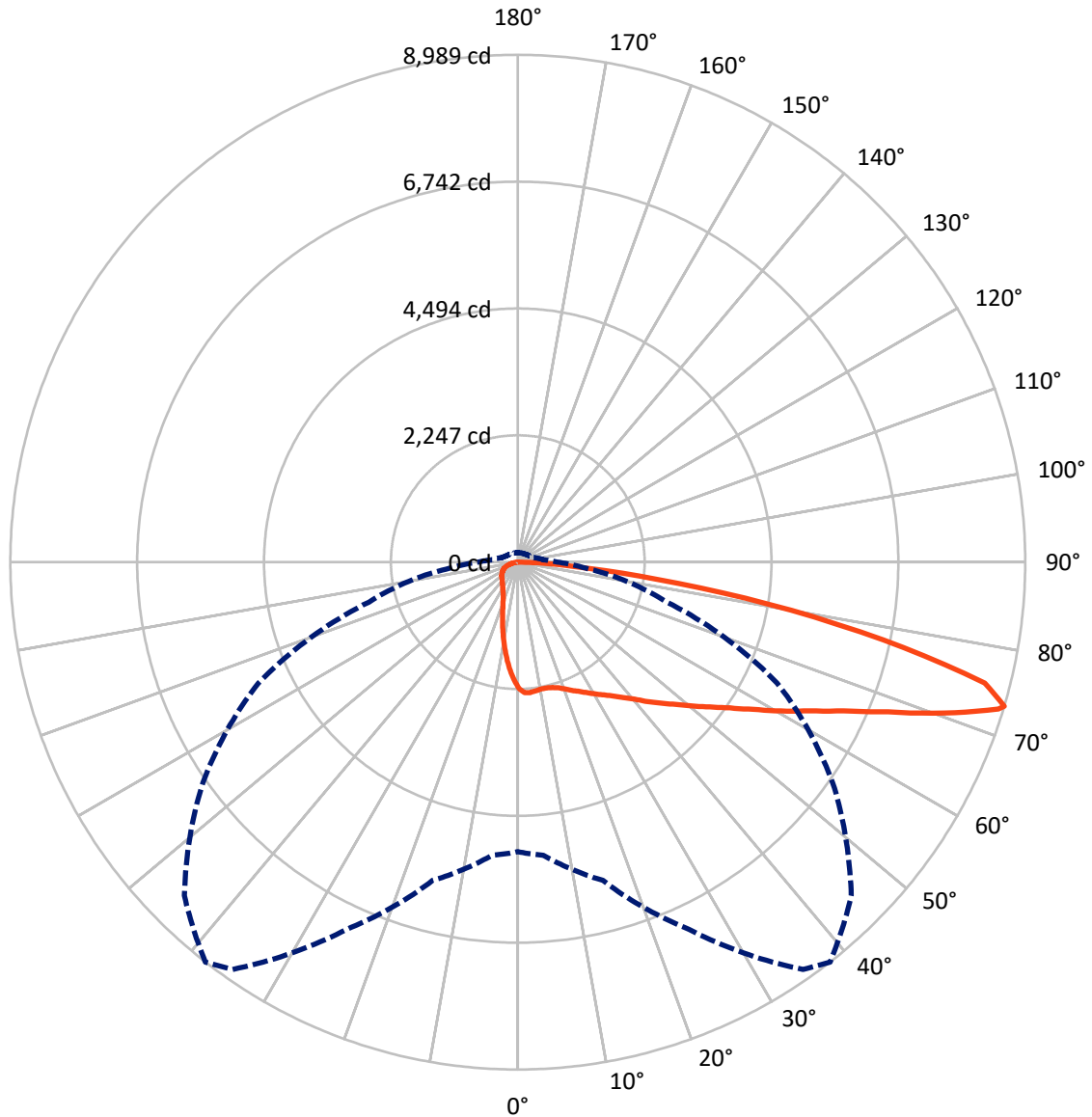
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1712.0	0.0	1712.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	11023.0	0.0	11023.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	12735.0	0.0	12735.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.3	1.5
10°-20°	500.8	3.9
20°-30°	779.8	6.1
30°-40°	1143.8	9.0
40°-50°	1696.8	13.3
50°-60°	2404.0	18.9
60°-70°	3049.5	23.9
70°-80°	2538.5	19.9
80°-90°	426.5	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12735.0	100.0
0°-180°	12735.0	100.0



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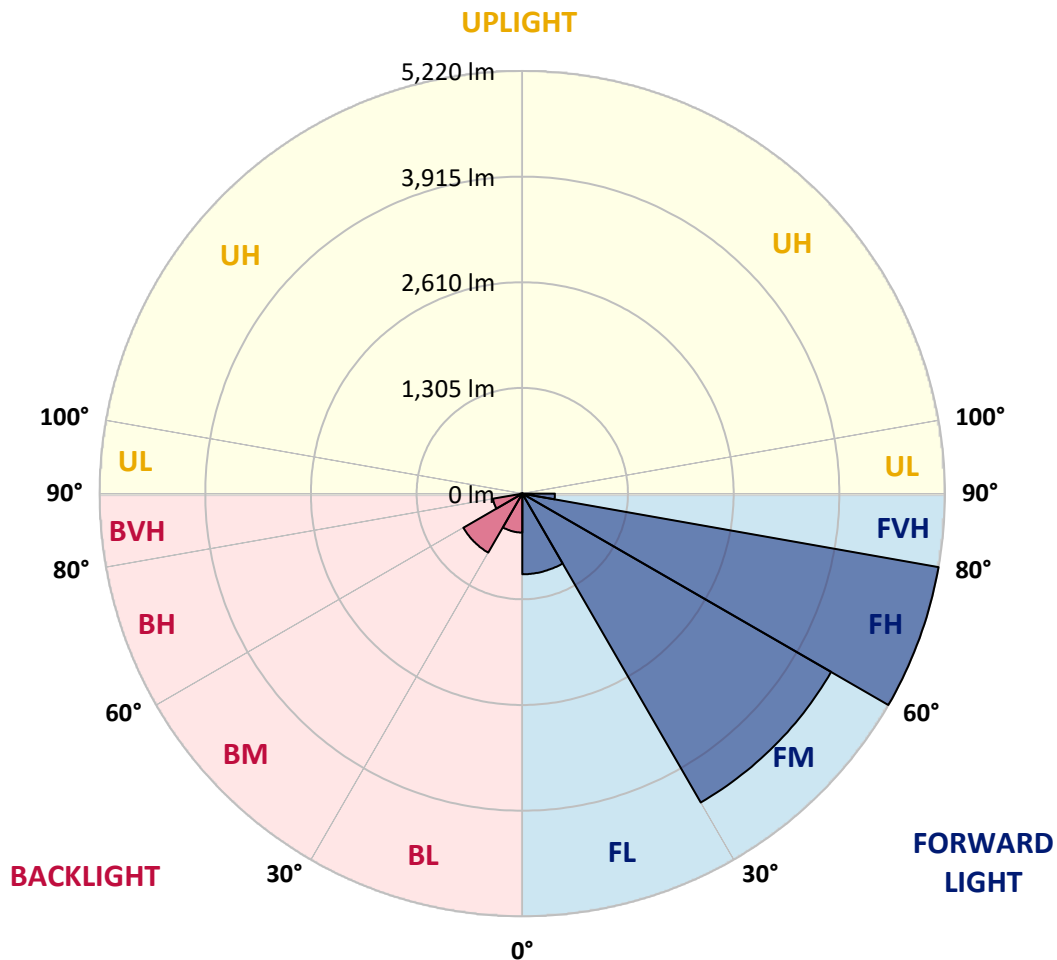
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	995.5	7.8			
FM (30°-60°)	4404.1	34.6			
FH (60°-80°)	5220.0	41.0			G3/7500
FVH (80°-90°)	403.4	3.2			G3/500
BL (0°-30°)	480.4	3.8	B1/500		
BM (30°-60°)	840.5	6.6	B1/1000		
BH (60°-80°)	368.0	2.9	B1/500		G1/500
BVH (80°-90°)	23.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3
2.5°	2327.2	2338.7	2333.0	2325.1	2320.0	2315.0	2307.8	2286.9	2270.4	2252.4	2224.4
5°	2344.5	2351.7	2346.6	2336.6	2325.1	2320.0	2306.4	2279.0	2252.4	2222.2	2180.5
7.5°	2334.4	2337.3	2331.5	2319.3	2309.2	2299.9	2284.1	2253.9	2221.5	2184.8	2130.2
10°	2298.5	2309.2	2309.2	2299.2	2289.1	2284.1	2268.2	2239.5	2210.0	2168.3	2103.6
12.5°	2269.0	2280.5	2289.8	2286.9	2286.2	2286.2	2274.0	2252.4	2217.9	2178.4	2101.4
15°	2248.8	2262.5	2282.6	2294.1	2301.3	2303.5	2298.5	2279.8	2244.5	2198.5	2110.0
17.5°	2244.5	2261.1	2297.7	2322.9	2341.6	2340.9	2339.4	2313.6	2274.7	2227.3	2120.8
20°	2263.9	2285.5	2336.6	2376.1	2403.5	2398.4	2390.5	2356.7	2311.4	2258.2	2130.9
22.5°	2322.2	2344.5	2400.6	2443.7	2470.3	2470.3	2446.6	2402.0	2353.8	2294.1	2144.6
25°	2405.6	2430.1	2489.8	2533.6	2545.8	2536.5	2512.8	2458.8	2403.5	2345.9	2173.3
27.5°	2507.7	2537.2	2592.6	2629.3	2625.7	2618.5	2594.0	2525.0	2469.6	2417.1	2222.2
30°	2635.0	2656.6	2714.1	2722.8	2709.8	2708.4	2673.9	2604.8	2553.0	2512.8	2292.0
32.5°	2755.1	2774.5	2820.6	2824.2	2801.1	2804.0	2771.7	2708.4	2678.9	2664.5	2409.2
35°	2882.4	2892.5	2932.0	2927.7	2912.6	2910.5	2897.5	2837.1	2846.5	2872.3	2575.3
37.5°	2988.9	3009.0	3031.3	3034.9	3034.2	3041.4	3050.0	3021.2	3075.2	3156.4	2793.2
40°	3086.7	3103.9	3137.0	3148.5	3176.6	3190.9	3220.4	3221.1	3345.6	3479.3	3061.5
42.5°	3152.8	3182.3	3244.2	3265.0	3333.3	3376.5	3420.4	3467.1	3647.6	3819.5	3377.9
45°	3210.4	3249.2	3352.0	3416.8	3509.5	3562.0	3654.8	3752.6	4012.2	4237.3	3699.4
47.5°	3297.4	3331.9	3449.8	3564.2	3704.4	3764.8	3903.6	4049.6	4389.1	4635.7	4007.2
50°	3418.2	3439.0	3559.1	3745.4	3924.5	4002.2	4185.5	4396.3	4791.8	5029.1	4277.6
52.5°	3572.8	3581.4	3677.1	3925.2	4161.1	4257.5	4500.5	4746.5	5144.2	5370.7	4491.9
55°	3755.5	3741.1	3815.9	4115.8	4431.5	4557.4	4818.4	5101.0	5540.5	5646.9	4648.0
57.5°	3936.0	3913.7	3973.4	4347.4	4765.2	4916.9	5221.1	5466.4	5894.3	5905.1	4757.3
60°	4127.3	4110.7	4181.9	4619.2	5174.4	5354.2	5635.4	5845.4	6236.6	6084.9	4774.5
62.5°	4323.6	4297.0	4398.4	4924.8	5635.4	5798.6	6071.2	6248.1	6572.5	6151.7	4608.4
65°	4514.2	4502.0	4658.8	5288.0	6160.4	6345.9	6610.6	6730.7	6841.4	6051.1	4196.3
67.5°	4717.0	4741.5	4991.7	5772.7	6845.0	7078.0	7363.5	7250.6	6918.4	5574.3	3534.0
70°	5026.2	5042.1	5429.0	6407.8	7727.4	8008.6	8146.7	7435.5	6547.3	4668.8	2656.6
72.5°	5159.3	5229.1	5819.5	7074.4	8729.9	8901.8	8409.9	7023.4	5454.2	3171.5	1395.9
73°	5129.8	5213.2	5837.5	7175.8	8808.3	8988.8	8353.8	6811.2	5070.1	2731.4	1196.7
75°	4762.3	4865.2	5603.7	7091.0	8655.9	8548.0	7452.0	5805.1	3426.1	1242.0	545.1
77.5°	3757.6	3787.1	4440.1	5726.0	6816.2	6616.3	5577.1	3628.2	1399.5	461.7	309.2
80°	1884.9	1993.5	2502.7	3280.1	4558.1	4492.6	3520.3	1715.9	583.2	271.1	205.0
82.5°	906.9	983.8	1219.0	1599.4	2518.5	2458.8	1743.3	937.8	370.4	158.2	120.8
85°	584.0	641.5	776.0	763.0	1035.6	988.9	783.2	709.8	219.3	82.7	84.1
87.5°	385.5	422.2	506.3	404.9	376.8	340.9	345.9	399.9	43.1	31.6	11.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3	2237.3
2.5°	2212.9	2203.5	2172.6	2142.4	2113.6	2086.3	2068.3	2044.6	2028.8	2033.1	2039.6
5°	2157.5	2136.6	2082.0	2028.8	1978.4	1918.7	1870.5	1831.7	1802.2	1791.4	1789.3
7.5°	2099.2	2064.0	1985.6	1894.3	1808.7	1734.6	1649.0	1606.6	1557.0	1539.7	1534.0
10°	2064.0	2016.5	1906.5	1779.2	1650.5	1527.5	1434.7	1359.2	1290.9	1278.0	1271.5
12.5°	2053.9	1991.4	1843.2	1679.3	1508.1	1357.1	1219.7	1120.5	1054.3	1039.2	1016.9
15°	2048.2	1970.5	1784.2	1578.6	1361.4	1177.3	1032.7	916.9	856.5	816.3	817.0
17.5°	2043.1	1946.8	1718.1	1468.5	1234.8	1022.7	863.0	758.7	703.3	681.8	679.6
20°	2036.0	1918.7	1641.9	1352.8	1090.3	881.7	737.1	659.5	622.1	604.1	603.4
22.5°	2033.1	1891.4	1567.1	1234.8	962.2	773.1	653.7	599.1	575.3	563.1	563.1
25°	2040.3	1872.0	1488.7	1122.6	848.6	680.3	596.2	558.8	545.1	538.7	536.5
27.5°	2062.6	1863.4	1411.0	1010.4	744.3	617.0	557.4	531.5	521.4	516.4	517.1
30°	2105.0	1862.6	1334.8	899.7	666.7	568.9	526.4	508.4	500.5	497.7	496.9
32.5°	2173.3	1878.5	1260.0	808.3	601.2	528.6	497.7	484.7	481.1	479.0	478.2
35°	2289.1	1923.0	1185.9	724.9	550.9	492.6	470.3	463.9	458.8	461.0	461.7
37.5°	2445.2	2000.0	1115.4	659.5	512.8	466.0	447.3	441.6	438.7	440.8	443.0
40°	2654.4	2110.8	1056.5	607.0	485.4	443.7	427.2	422.2	419.3	422.9	423.6
42.5°	2885.3	2238.8	1007.6	566.0	463.1	425.0	409.2	403.5	401.3	403.5	404.2
45°	3122.6	2387.6	982.4	536.5	444.4	411.4	394.8	388.3	383.3	381.9	384.0
47.5°	3356.3	2517.1	981.7	518.5	429.3	399.1	381.2	374.0	367.5	363.9	363.2
50°	3546.9	2619.9	998.9	510.6	416.4	385.5	367.5	360.3	351.7	344.5	345.9
52.5°	3690.8	2686.8	1006.8	507.0	409.2	371.1	353.1	346.6	336.6	327.2	327.2
55°	3783.5	2702.6	987.4	503.4	403.5	356.0	336.6	330.8	320.7	311.4	311.4
57.5°	3815.2	2653.7	917.7	494.8	397.7	343.0	320.0	315.0	307.1	297.7	296.3
60°	3741.8	2488.3	795.4	468.9	386.2	329.4	302.0	299.9	297.0	289.1	288.4
62.5°	3459.2	2137.4	662.4	435.1	366.8	315.0	285.5	289.1	291.3	286.9	286.2
65°	2988.9	1735.3	566.0	388.3	340.9	294.9	267.5	276.9	282.6	282.6	281.2
67.5°	2424.3	1332.6	476.8	348.1	308.5	267.5	247.4	254.6	258.9	257.5	261.1
70°	1723.1	902.6	388.3	302.0	267.5	236.6	221.5	221.5	218.6	217.2	217.2
72.5°	835.7	515.6	315.0	252.4	228.0	202.1	189.9	184.8	179.1	178.4	174.8
73°	698.3	462.4	300.6	243.1	218.6	197.1	183.4	175.5	171.9	169.0	168.3
75°	425.0	351.0	251.0	205.0	186.3	169.7	157.5	150.3	146.7	144.6	143.8
77.5°	279.8	261.8	194.9	156.8	142.4	132.3	127.3	120.1	117.9	115.1	115.1
80°	208.6	199.9	139.5	110.8	102.1	93.5	92.1	90.6	84.9	81.3	79.8
82.5°	134.5	142.4	94.9	74.1	64.7	57.5	58.3	60.4	54.7	49.6	48.2
85°	95.6	102.8	57.5	33.8	27.3	23.7	26.6	23.7	24.5	19.4	15.8
87.5°	15.8	27.3	10.1	4.3	2.2	1.4	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)